Notice of Allowability	Application No.	Applicant(s)
	09/942,328 Examiner	VENKITAKRISHNAN ET AL.  Art Unit
	Hong C Kim	2186
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (0 herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGORY of the Office or upon petition by the applicant. See 37 CFR 1.313 and the communication of the Office or upon petition by the applicant.	OR REMAINS) CLOSED in this apport of the communication GHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>amendment filed on 2/</u>	<u>14/2005</u> .	
2. X The allowed claim(s) is/are 1-2 and 4-17 which are renumber	ered to 1-16.	
3.   The drawings filed on 28 August 2001 are accepted by the E	Examiner.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority und</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have to</li> <li>2. Certified copies of the priority documents have to</li> <li>3. Copies of the certified copies of the priority documents have to</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	peen received. peen received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" or noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submitt INFORMAL PATENT APPLICATION (PTO-152) which gives</li> </ol>		
6. CORRECTED DRAWINGS ( as "replacement sheets") must	be submitted.	
(a) including changes required by the Notice of Draftsperso	n's Patent Drawing Review (PTO-	948) attached
1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's	Amendment / Comment or in the C	Office action of
Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT For		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary Paper No./Mail Dat</li> </ol>	
Information Disclosure Statements (PTO-1449 or PTO/SB/08     Paper No./Mail Date		
4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9.  Other	

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## **Detailed Action**

1. Claims 1-2 and 4-17 are presented for examination. This office action is in response to the amendment filed on 2/14/2005.

2. Applicants are reminded of the duty to disclose information under 37 CFR 1.56.

## **EXAMINER'S AMENDMENT**

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Wendell Jones Attorney for Applicants (Reg. No. 45,961) February 23, 2004.

Application has been amended as follows:

## In the claim:

As to claim 1 in line 1, add – cache – before "coherency".

As to claims 4-7 in line 1, change "4" to -1 – before "wherein".

## REASONS for ALLOWANCE

5. The following is an Examiner's statement of reasons for the indication of

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prior art of records.

allowable subject matter: renumbered claims 1-16 are allowable over the prior art of record because the arguments set forth in the amendment filed on 2/14/2005 are persuasive. The claims are allowable over the prior art of record because the claims are distinguished from the prior art of record for the reasons as set forth in the amendment filed on 2/14/2005 and because an update of a search previously made does not detect the combined claimed elements as set forth in the claims 1-16. Specifically, claims are allowable over the prior art of record because none of the prior art of record teaches or fairly suggests a cache coherency maintenance system, comprises a plurality of cache memories; a plurality of processor cores included on a single substrate; and a coherency system bus wherein a coherency protocol associates a pending state with a cache line, wherein the pending state is one of a plurality of states comprising a pending invalidate write miss state, pending copy back state, and pending copy forward state as described in the specification and together with combination of other claimed element as set forth in the claims. Also the reasons for allowance of the claims over the prior art of record is believed to be clear from the prosecution records taken as a whole. Therefore, claims 1-16 are allowable over the

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6. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons For Allowance."

7. Any response to this action should be mailed to:

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Or faxed to TC-2100: (703) 872-9306

Hand-delivered responses should be brought to the Customer Service Window (Randolph Building, 401 Dulany Street, Alexandria, VA 22314).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Kim whose telephone number is (571) 272-4181. The examiner can normally be reached on M-F 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim can be reached on (571) 272-4182. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 whose telephone number is (571) 272-2100.

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9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**Primary Patent Examiner** 

February 23, 2005